

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040509 A1

(51) International Patent Classification⁷: E02F 5/16, 5/20,
9/24, F16F 11/00, 15/00, 15/023, 15/027, A01B 61/04

(21) International Application Number:
PCT/AU2004/001463

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003905795 22 October 2003 (22.10.2003) AU

(71) Applicant (for all designated States except US): DIGGA
AUSTRALIA PTY LTD [AU/AU]; 25 Christensen Road,
Stapylton, Queensland 4207 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): WRIGHT, Stewart,
James [AU/AU]; 5282 Marine Drive, North Sanctuary
Cove, Queensland 4212 (AU).

(74) Agent: CULLEN & CO.; Level 26, 239 George Street,
Brisbane, Queensland 4000 (AU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

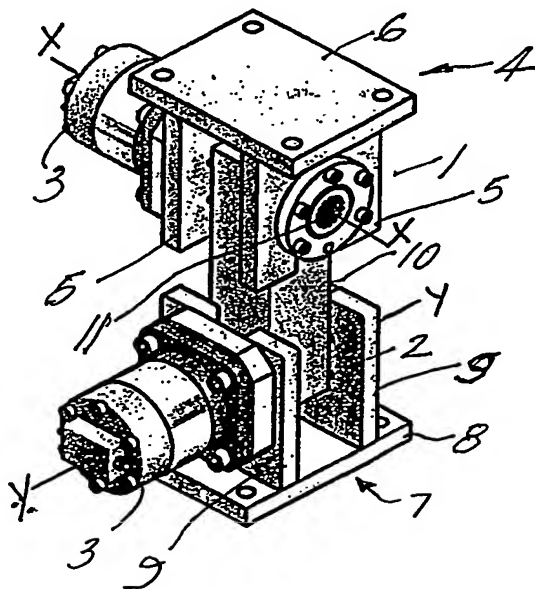
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: DAMPENING APPARATUS



(57) Abstract: A support structure for a tool comprising a boom
or arm for supporting the tool, a pendulum pivot (1, 2) support-
ing the tool with respect to the boom or arm in a manner which
allows the tool to pendulate and self monitoring and operating
dampening means (3) for controlling the pendulation of the tool
on the pendulum pivot with respect to the boom or arm.